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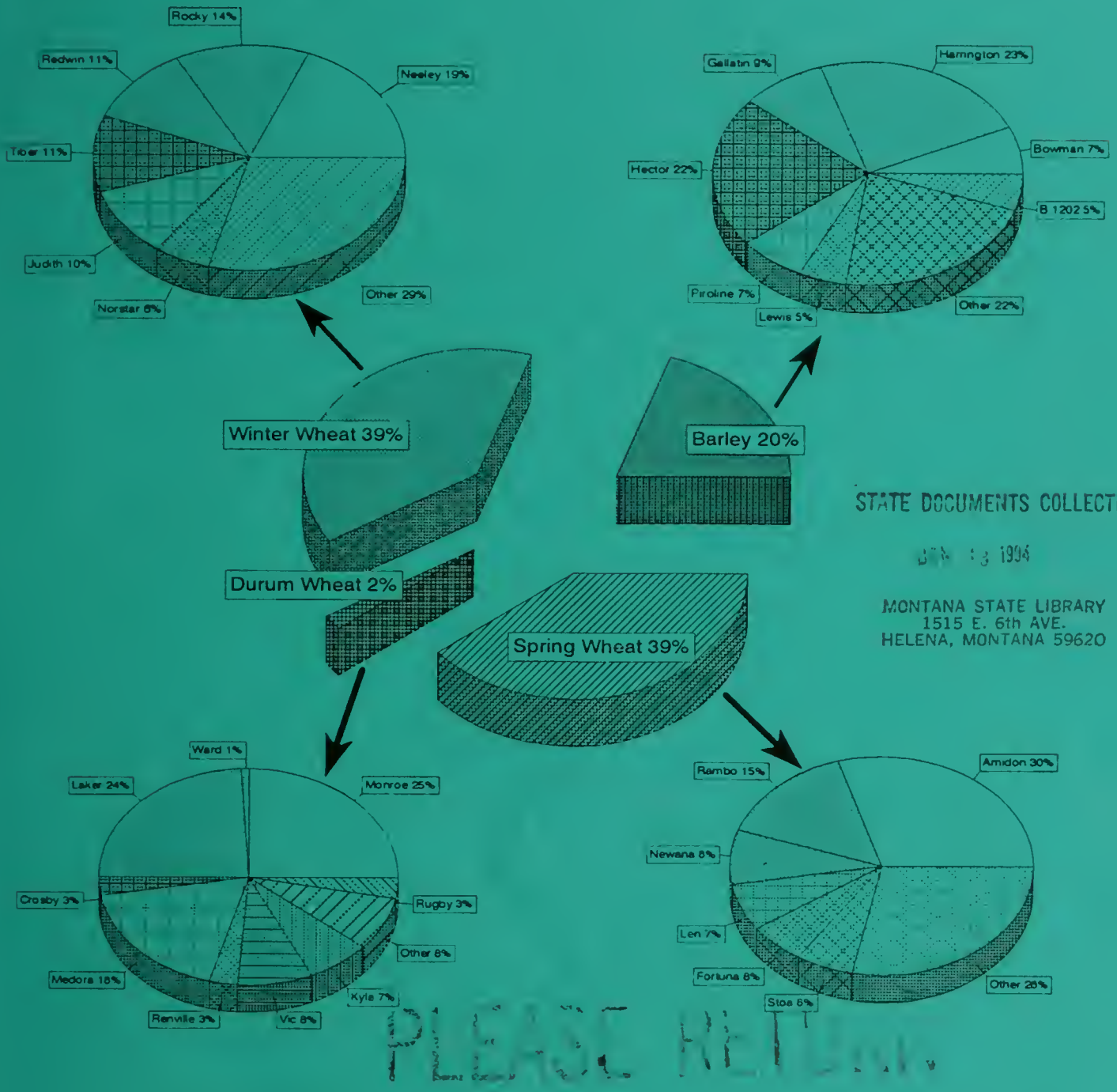
Wheat & Barley Varieties
Montana - 1993



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MONTANA WHEAT & BARLEY VARIETIES

Foreword

This publication is the result of a June survey of Montana grain growers. It contains names, characteristics and production records of the leading varieties in Montana in 1993. We wish to thank the many farmers who voluntarily provided us with variety information.

Funding for the barley varieties survey was provided by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. The wheat variety survey was funded by the Montana Wheat & Barley Committee. Montana State University provided varietal characteristic information.

Plant researchers continually develop new grain varieties with promises of higher yields, improved baking and milling qualities and increased insect and disease resistance. Montana farmers test these new varieties in their fields with hopes of increasing their overall farm profits. Shifts occur in the acres of varieties planted, as farmers discover what works or doesn't work for them.

Montana Wheat & Barley Committee
Jim Squires, Chairman

Montana Department of Agriculture
Leo A. Giacometto, Director

Compiled by
Montana Agricultural Statistics Service
James K. Sands, State Statistician
Curtis E. Lund, Deputy State Statistician
Sidney W. Lebahn, Ag Statistician
P.O. Box 4369 Helena, Montana 59604
Phone: (800) 835-2612
August 1993

Winter Wheat

Neeley remains in top position for the sixth consecutive year. It is a semi-dwarf, intermediate maturing variety, first released in 1980. Neeley quickly became a leading variety. For the five years prior to 1993 it has accounted for about one-quarter of the total winter wheat planted acres. In 1993, Neeley accounted for nearly 19 percent of the state's winter wheat acreage. Neeley is the top variety in central and southwest Montana. Neeley has moderate to good milling and baking qualities, but has a 1 to 3 percent lower protein content than other recommended varieties.

Rocky once again claims second place, with more than 14 percent of the states seeded acres. Rocky, grown mainly in north central Montana, increased 17 percent over last year's acreage. It is a high yielding variety released by North American Plant Breeders with good stem and leaf rust resistance and acceptable milling and baking qualities.

Redwin acreage increased 10 percent and moved back into third place after falling into fourth place last year. This prominent variety had been declining since 1984. Redwin is the leading variety in south central and southeast Montana. Redwin was released by Montana State University with good yield potential, winter hardiness, shatter and lodging resistance and a high protein content.

Tiber plantings declined 20 percent and moved down to fourth place. Tiber accounts for 10.6 percent of total winter wheat acreage. Tiber was released by M.S.U. in 1987 and has increased in percent of total winter wheat acres each year, until this year. Tiber has high yield potential, good winter hardiness and drought tolerance. Tiber also has good milling and baking qualities.

The top four varieties accounted for 55 percent of the winter wheat acreage seeded in 1993 compared with 61 percent for the same varieties in 1992.

Winter Wheat

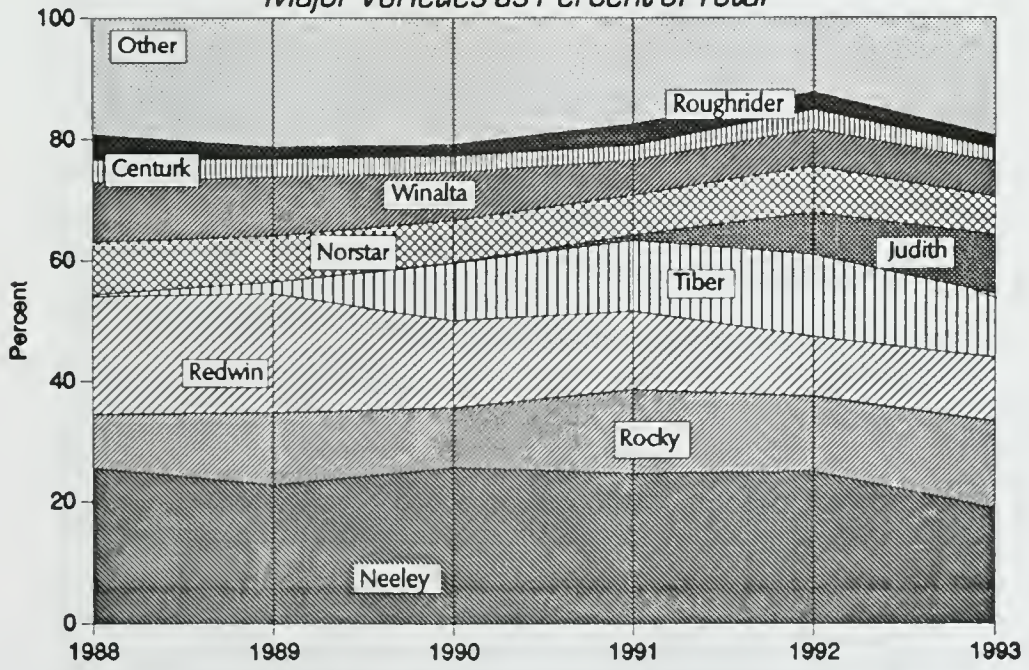
Percent of Total Seeded Acreage 1988-1993 and Seeded Acreage 1992-1993

Variety	Percent of Total Seeded Acreage						Seeded Acres (000)	
	1988	1989	1990	1991	1992	1993	1992[1]	1993[2]
Neeley	25.5	22.8	25.7	24.7	25.0	18.8	650.6	498.4
Rocky	9.0	12.0	9.9	14.0	12.5	14.4	325.7	381.1
Redwin	19.6	19.8	14.5	13.0	9.9	10.7	257.9	284.6
Tiber	0.3	1.9	9.5	11.7	13.5	10.6	350.3	281.8
Judith	--	--	0.1	0.8	7.0	9.7	183.0	256.9
Norstar	8.7	7.6	6.9	6.6	7.6	6.2	197.7	164.8
Winalta	9.8	9.7	8.0	5.8	6.1	5.8	159.0	152.4
Centurk	3.8	3.0	2.7	2.4	3.3	2.3	84.9	61.4
Roughrider	4.1	2.0	1.9	3.6	2.8	2.1	73.1	55.0
Siouxland	--	--	--	--	0.1	1.4	3.8	37.6
Seward	--	--	--	--	0.2	1.4	6.4	35.4
Warrior	0.8	1.0	1.1	0.4	0.7	1.1	17.1	29.2
Hawk	0.6	1.2	0.7	0.9	1.0	1.0	26.3	27.0
Cheyenne	1.7	1.4	1.8	1.2	0.8	1.0	20.3	26.9
Bighorn	0.1	0.3	0.6	0.8	0.3	1.0	6.5	25.2
Agassiz	1.1	1.0	0.8	0.7	0.1	0.8	2.9	21.8
Cree	2.9	3.1	3.9	2.0	0.8	0.6	21.6	16.8
Stephens	0.5	0.5	0.3	0.2	0.2	0.6	6.2	16.8
Vona	0.3	0.4	0.5	0.6	0.3	0.6	7.1	16.6
Cimmaron	0.2	0.5	0.1	0.6	1.0	0.6	25.6	15.2
Other & Unknown	11.0	11.8	11.0	10.0	6.8	9.3	174.0	245.1
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	2600.0	2650.0

[1]Revised [2]Preliminary

Winter Wheat Varieties 1988-93

Major Varieties as Percent of Total

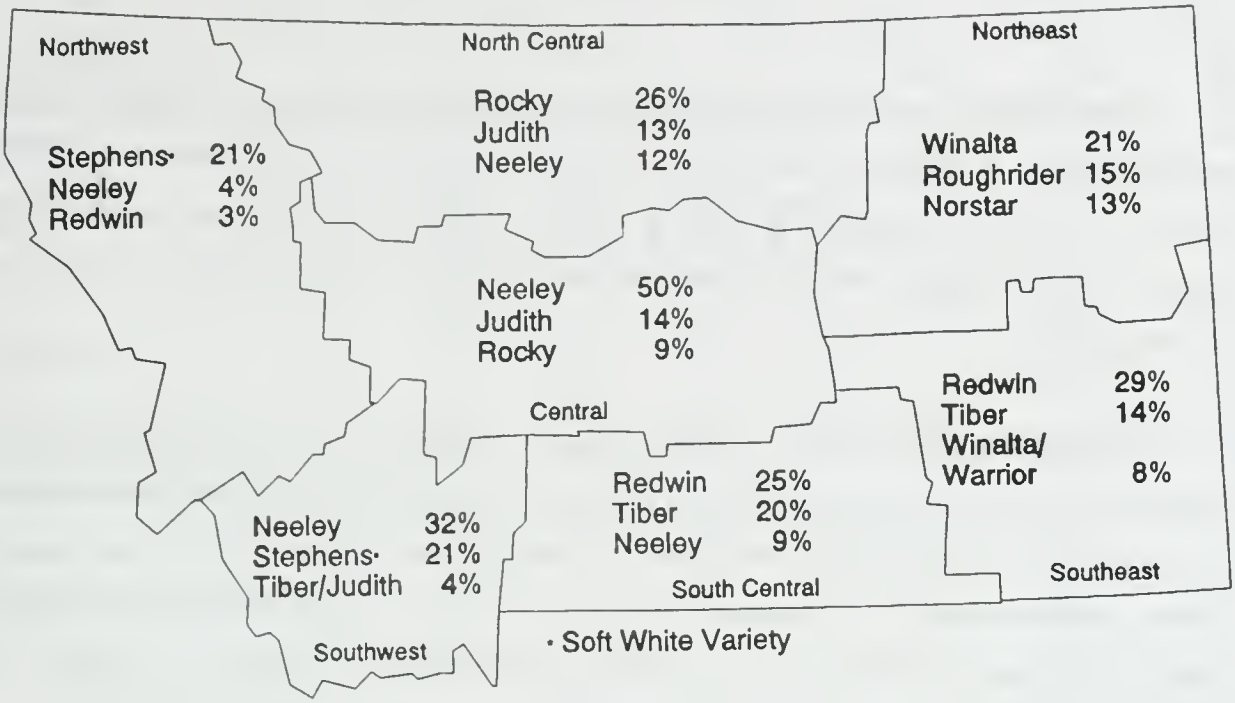


WINTER WHEAT VARIETIES

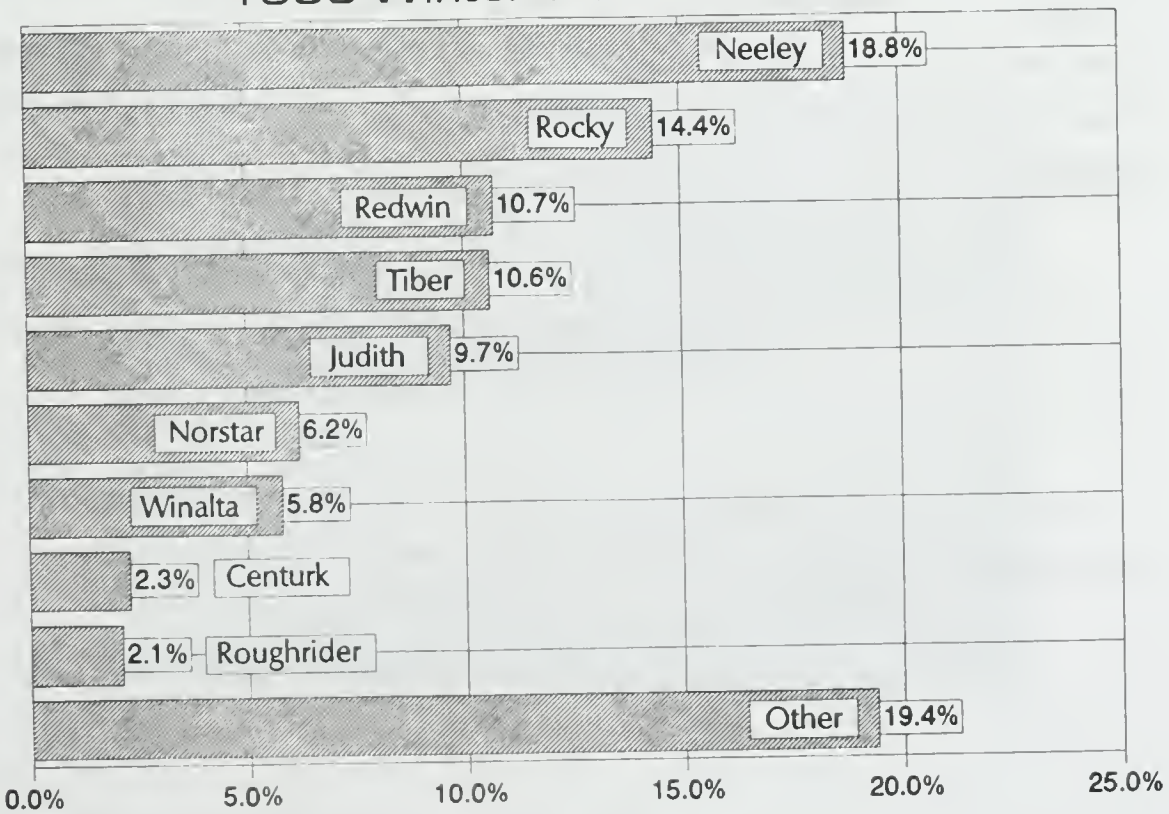
Seeded Acreage and Percent of Total by Districts - 1993 Preliminary

Varieties	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Neeley	1.4	4.1	156.2	12.3	30.2	10.6	265.4	49.7	13.9	31.7	25.4	8.7	5.9	3.1	498.4	18.8
Rocky	--	--	325.1	25.6	2.6	0.9	48.1	9.0	--	--	3.2	1.1	2.1	1.1	381.1	14.4
Redwin	0.9	2.6	105.4	8.3	23.1	8.1	24.0	4.5	1.6	3.6	73.9	25.3	55.7	29.3	284.6	10.7
Tiber	0.3	0.8	142.2	11.2	13.1	4.6	41.7	7.8	1.8	4.2	56.9	19.5	25.8	13.6	281.8	10.6
Judith	--	--	166.4	13.1	2.0	0.7	72.6	13.6	1.8	4.2	7.6	2.6	6.5	3.4	256.9	9.7
Norstar	--	--	121.9	9.6	35.6	12.5	2.7	0.5	--	--	--	--	4.6	2.4	164.8	6.2
Winalta	--	--	76.2	6.0	60.1	21.1	0.5	0.1	--	--	--	--	15.6	8.2	152.4	5.8
Centurk	--	--	54.6	4.3	--	--	3.2	0.6	--	--	0.6	0.2	3.0	1.6	61.4	2.3
Roughrider	--	--	--	--	42.5	14.9	--	--	--	--	--	--	12.5	6.6	55.0	2.1
Siouxland	--	--	--	--	--	--	16.0	3.0	--	--	21.6	7.4	--	--	37.6	1.4
Seward	0.3	0.8	--	--	34.8	12.2	--	--	0.3	0.7	--	--	--	--	35.4	1.4
Warrior	--	--	2.5	0.2	--	--	--	--	--	--	11.1	3.8	15.6	8.2	29.2	1.1
Hawk	--	--	5.1	0.4	--	--	3.2	0.6	--	--	18.7	6.4	--	--	27.0	1.0
Cheyenne	0.4	1.1	12.7	1.0	2.6	0.9	--	--	--	--	3.8	1.3	7.4	3.9	26.9	1.0
Bighorn	--	--	11.4	0.9	7.1	2.5	4.8	0.9	--	--	0.6	0.2	1.3	0.7	25.2	1.0
Aqassiz	--	--	--	--	13.4	4.7	--	--	--	--	--	--	8.4	4.4	21.8	0.8
Cree	--	--	10.2	0.8	--	--	5.9	1.1	0.7	1.7	--	--	--	--	16.8	0.6
Stephens	7.4	21.1	--	--	--	--	--	--	9.4	21.4	--	--	--	--	16.8	0.6
Vona	--	--	10.2	0.8	--	--	6.4	1.2	--	--	--	--	--	--	16.6	0.6
Cimmaron	--	--	15.2	1.2	--	--	--	--	--	--	--	--	--	--	15.2	0.6
Other & Unknown	24.3	69.5	54.7	4.3	17.9	6.3	39.5	7.4	14.5	32.5	68.6	23.5	25.6	13.5	245.1	9.3
All Varieties	35.0	100.0	1270.0	100.0	285.0	100.0	534.0	100.0	44.0	100.0	292.0	100.0	190.0	100.0	2650.0	100.0

Top Three Winter Wheat Varieties and Percent by District



1993 Winter Wheat Varieties



Spring Wheat

Amidon ND(606) remained in the number 1 position as planted acreage increased 53 percent, and represented 30 percent of the spring wheat planted acreage. It was released in 1988 by NDSU. Amidon is especially adapted to dryland conditions where it has excellent yield potential. It has good resistance to both leaf and stem rust, has root rot tolerance and good milling qualities.

WestBred Rambo maintained its second position, in spite of an 11 percent drop in planted acreage. It is the top variety in north central Montana where 89 percent of total Rambo acreage was planted this year. Rambo contributed 15 percent to the total 1993 planted spring wheat acres. Rambo climbed from less than 1 percent in 1987 to become the second most important variety in the state in 1992. It was released by the Western Plant Breeders, with sawfly, and lodging resistance.

Newana remained in third place in spite of a 40 percent drop in planted acreage. Newana is a popular spring wheat variety that is grown in every district of the state. It is the top variety in the central section of Montana this year with 32 percent of that district's planted acres. Newana was released by M.S.U, and is a semi-dwarf variety with good milling quality and yield potential.

Len is the fourth place variety again this year, although planted acreage dropped 14 percent. The northeastern area of the state has a large majority of the Len. It is a semi-dwarf variety from North Dakota with excellent milling and baking quality.

This top four spring wheat varieties represent 60 percent of the acreage seeded in 1993 compared with 57 percent for the same varieties in 1992.

Spring Wheat

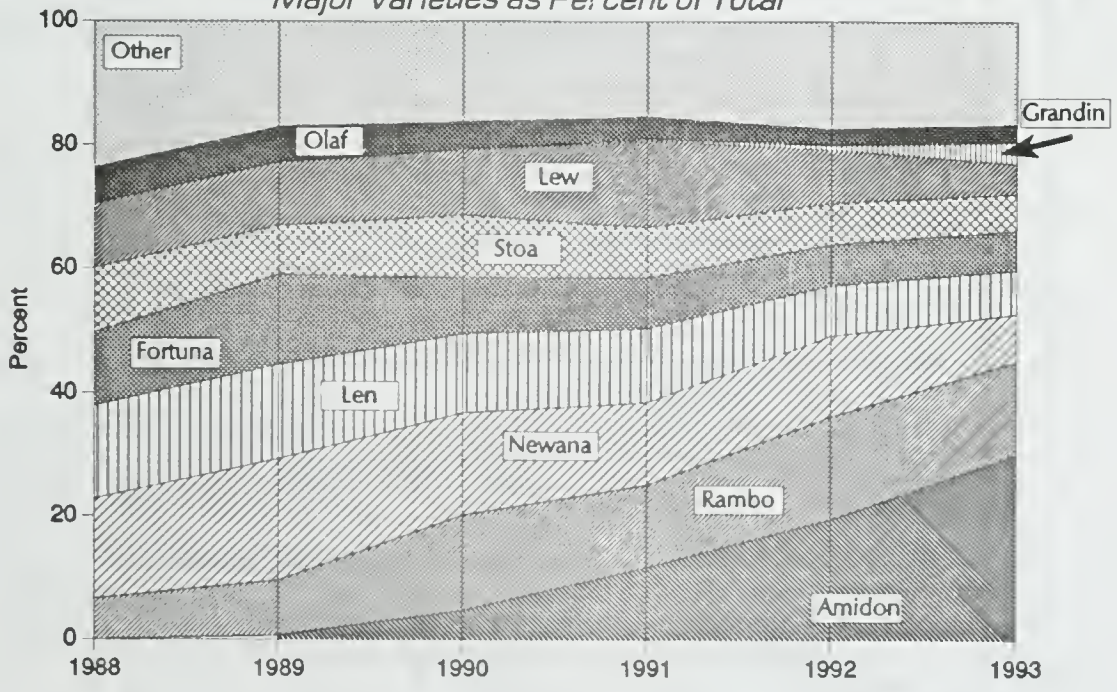
Percent of Total Seeded Acreage 1988-1993 and Seeded Acreage 1992-1993

Variety	Percent of Total Seeded Acreage						Seeded Acres	
	1988	1989	1990	1991	1992	1993	1992[1]	1993[2]
Amidon (ND 606)	--	0.6	4.7	11.7	19.6	30.0	519.3	794.3
WestBred Rambo	6.6	9.0	15.5	13.5	16.7	15.0	443.0	396.4
Newana	16.2	19.7	16.6	13.3	12.9	7.7	342.0	205.1
Len	15.1	15.2	12.7	11.9	8.1	7.0	215.1	185.5
Fortuna	11.8	14.6	9.0	8.2	6.6	6.4	174.1	169.3
Stoa	10.3	7.9	10.0	8.1	6.7	5.9	176.8	155.9
Lew	10.4	10.2	10.7	14.1	8.7	5.0	229.3	33.3
Grandin	--	--	--	0.2	0.7	3.5	19.8	93.2
Olaf	5.9	5.8	4.5	3.6	2.7	2.9	70.6	76.1
WestBred 926	0.1	0.1	0.3	0.7	0.9	1.5	23.8	38.6
Tioga	3.1	1.1	1.4	1.1	1.3	1.4	35.6	38.1
Glenman	1.1	2.4	1.4	1.5	0.7	1.3	18.8	35.2
Northrup King 751	0.9	0.5	1.3	0.8	1.1	1.0	29.4	27.2
Celtic	--	--	--	0.4	0.6	0.9	16.6	24.5
Cutlass	1.1	0.5	0.7	0.7	0.4	0.8	11.9	20.7
Pondera	1.8	2.4	2.2	0.8	1.5	0.5	38.7	13.6
Leader	0.9	1.1	0.7	0.4	1.1	0.5	28.8	12.1
Penawawa	--	--	--	--	0.1	0.4	3.8	11.6
Butte	0.8	0.4	0.4	2.0	0.5	0.4	12.4	11.3
Other & Unknown	13.9	8.5	7.9	7.0	9.1	7.9	240.2	208.0
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	2650.0	2650.0

[1]Revised [2]Preliminary

Spring Wheat Varieties - 1988-93

Major Varieties as Percent of Total

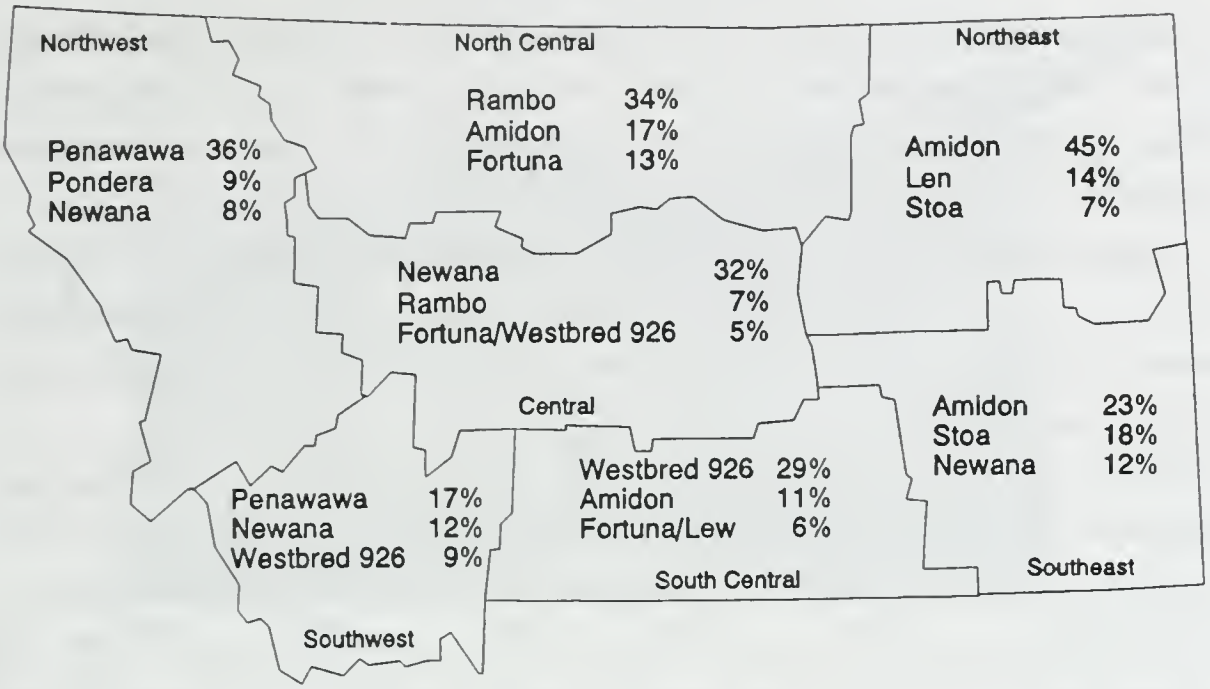


SPRING WHEAT VARIETIES

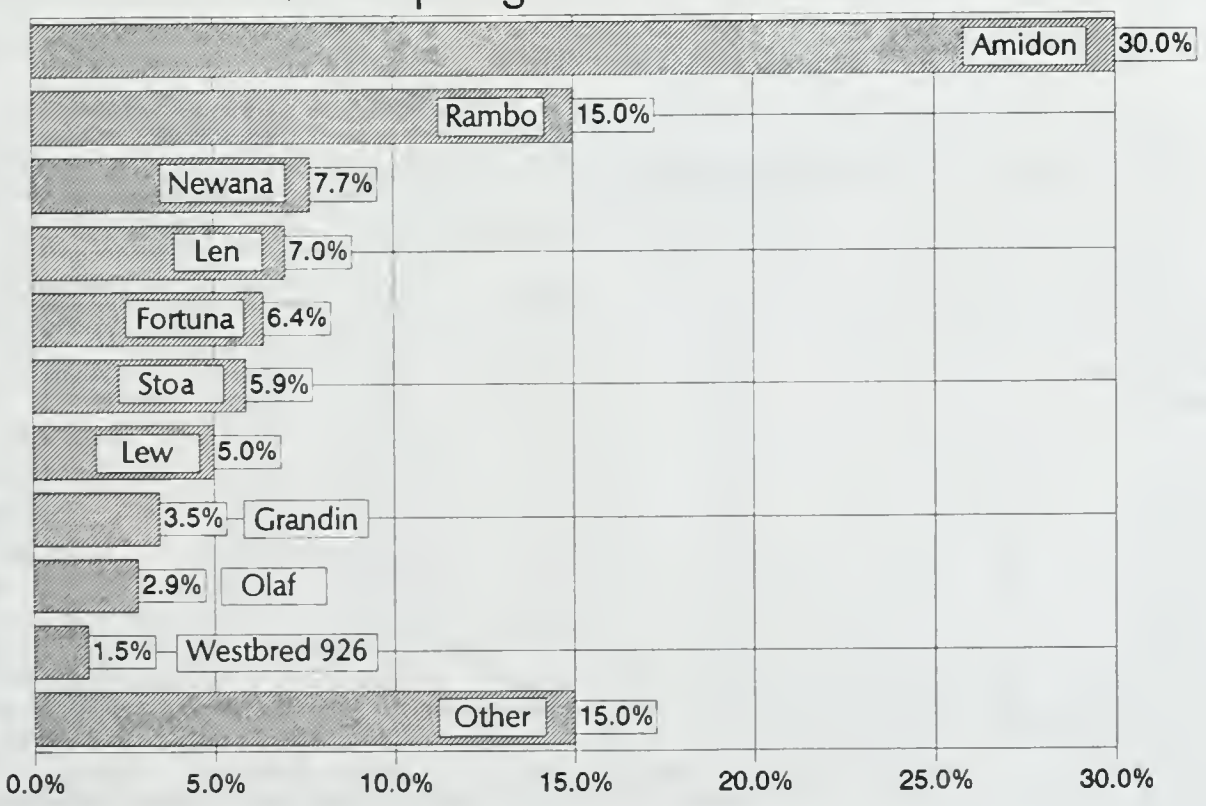
Seeded Acreage and Percent of Total by Districts - 1993 Preliminary

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Amidon (ND 606)	--	--	171.6	16.6	592.7	44.5	2.6	2.7	0.1	0.7	4.8	10.5	22.5	22.7	794.3	30.0
WestBred Rambo	--	--	352.6	34.1	37.3	2.8	6.5	6.6	--	--	--	--	--	--	396.4	15.0
Newana	1.6	7.9	112.7	10.9	42.6	3.2	31.0	31.6	2.5	11.9	2.4	5.2	12.3	12.4	205.1	7.7
Len	0.4	1.9	--	--	179.8	13.5	--	--	--	--	2.0	4.4	3.3	3.3	185.5	7.0
Fortuna	--	--	135.5	13.1	24.0	1.8	5.1	5.2	0.4	2.0	2.9	6.3	1.4	1.4	169.3	6.4
Stoa	--	--	38.3	3.7	95.9	7.2	4.3	4.4	--	--	--	--	17.4	17.6	155.9	5.9
Lew	1.4	7.1	76.5	7.4	49.3	3.7	0.9	0.9	--	--	2.9	6.3	2.3	2.3	133.3	5.0
Grandin	--	--	2.1	0.2	79.9	6.0	0.2	0.2	--	--	--	--	11.0	11.1	93.2	3.5
Olaf	--	--	15.5	1.5	51.9	3.9	--	--	--	--	--	--	8.7	8.8	76.1	2.9
WestBred 926	1.3	6.5	12.4	1.2	--	--	5.3	5.4	1.9	9.0	13.3	28.9	4.4	4.4	38.6	1.5
Tioga	--	--	2.1	0.2	36.0	2.7	--	--	--	--	--	--	--	--	38.1	1.4
Glenman	--	--	35.2	3.4	--	--	--	--	--	--	--	--	--	--	35.2	1.3
Northrup King 751	--	--	17.6	1.7	--	--	4.7	4.8	--	--	0.7	1.5	4.2	4.2	27.2	1.0
Celtic	--	--	--	--	24.0	1.8	--	--	--	--	--	--	0.5	0.5	24.5	0.9
Cutlass	--	--	2.1	0.2	18.6	1.4	--	--	--	--	--	--	--	--	20.7	0.8
Pondera	1.8	8.7	11.4	1.1	--	--	0.4	0.4	--	--	--	--	--	--	13.6	0.5
Leader	0.1	0.6	--	--	12.0	0.9	--	--	--	--	--	--	--	--	12.1	0.5
Penawawa	7.2	35.5	--	--	--	--	0.9	0.9	3.5	16.9	--	--	--	--	11.6	0.4
Butte	--	--	--	--	4.0	0.3	--	--	--	--	2.3	4.9	5.0	5.0	11.3	0.4
Other & Unknown	6.4	31.8	48.4	4.7	84.0	6.3	36.1	36.9	12.4	59.5	14.7	32.0	6.0	6.3	208.0	7.8
All Varieties	20.2	100.0	1034.0	100.0	1332.0	100.0	98.0	100.0	20.8	100.0	46.0	100.0	99.0	100.0	2650.0	100.0

Top Three Spring Wheat Varieties and Percent by District



1993 Spring Wheat Varieties



Durum Wheat

. **Monroe** moved into first place with 28,300 acres seeded in 1993 compared with 16,400 acres in 1992. Monroe accounted for 24.6 percent of the durum planted. It was released by North Dakota in 1985. Monroe is highly resistant to most stem rust, has a high yield potential, and has favorable milling qualities and spaghetti coloring.

WestBred Laker moved into second position among durum wheat varieties, accounting for 27,500 acres and 23.9 percent of all durum seeded. It is a tall semi-dwarf released by the Western Plant Breeders in 1986. WestBred Laker is resistant to stem rust, moderately resistant to leaf rust and has a high yield potential.

Medora moved down to third place this season with 18.3 percent of the planted acreage. It has been on the scene for seven years and has been one of the top five durum wheat varieties since 1988. Medora is a strong-strawed, disease resistant variety with high yield potential.

Vic fell from its previous number one position to take up the number 4 spot in 1993. Vic was seeded on 7.8 percent of durum acreage in sharp contrast with the 26.6 percent in 1992. Vic is of medium height with good disease resistance to stem rust and root rot. It is moderately resistant to leaf rust, and has satisfactory milling, processing and cooking properties.

The top four varieties represent 75 percent of the acreage seeded in 1993 compared with 67 percent for the same varieties in 1992.

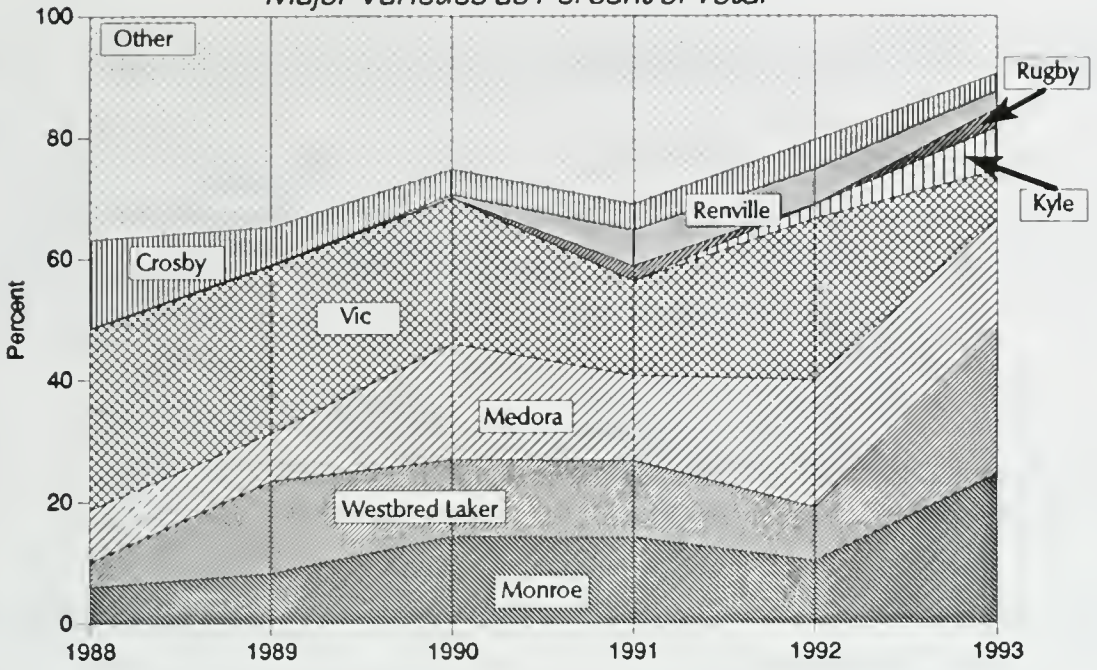
Percent of Total Seeded Acreage 1988-1993 and Seeded Acreage 1992-1993

Variety	Percent of Total Seeded Acreage						Seeded Acres (000)	
	1988	1989	1990	1991	1992	1993	1992[1]	1993[2]
Monroe	6.1	8.3	14.3	14.2	10.3	24.6	16.4	28.3
WestBred Laker	4.0	15.2	12.7	12.6	8.9	23.9	14.2	27.5
Medora	8.6	7.8	19.0	14.0	20.8	18.3	33.3	21.1
Vic	29.7	27.4	24.0	15.5	26.6	7.8	42.6	9.0
Kyle	0.1	0.3	--	--	2.4	7.1	3.8	8.2
Rugby	--	--	--	2.5	--	3.1	--	3.6
Renville	--	--	0.6	6.0	5.9	2.9	9.5	3.3
Crosby	14.7	6.3	4.3	4.3	4.8	2.8	7.6	3.2
Ward	17.0	18.5	10.2	14.1	5.8	1.3	9.3	1.5
Wakooma	0.7	1.3	4.0	0.2	1.3	--	2.1	--
Wascana	1.7	--	1.0	--	1.6	--	2.5	--
Lloyd	6.6	4.6	1.4	5.4	0.4	--	0.6	--
Other & Unknown	10.8	10.3	8.5	11.2	11.2	8.2	18.1	9.3
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	160.0	115.0

[1] Revised [2] Preliminary

Durum Wheat Varieties 1988-93

Major Varieties as Percent of Total

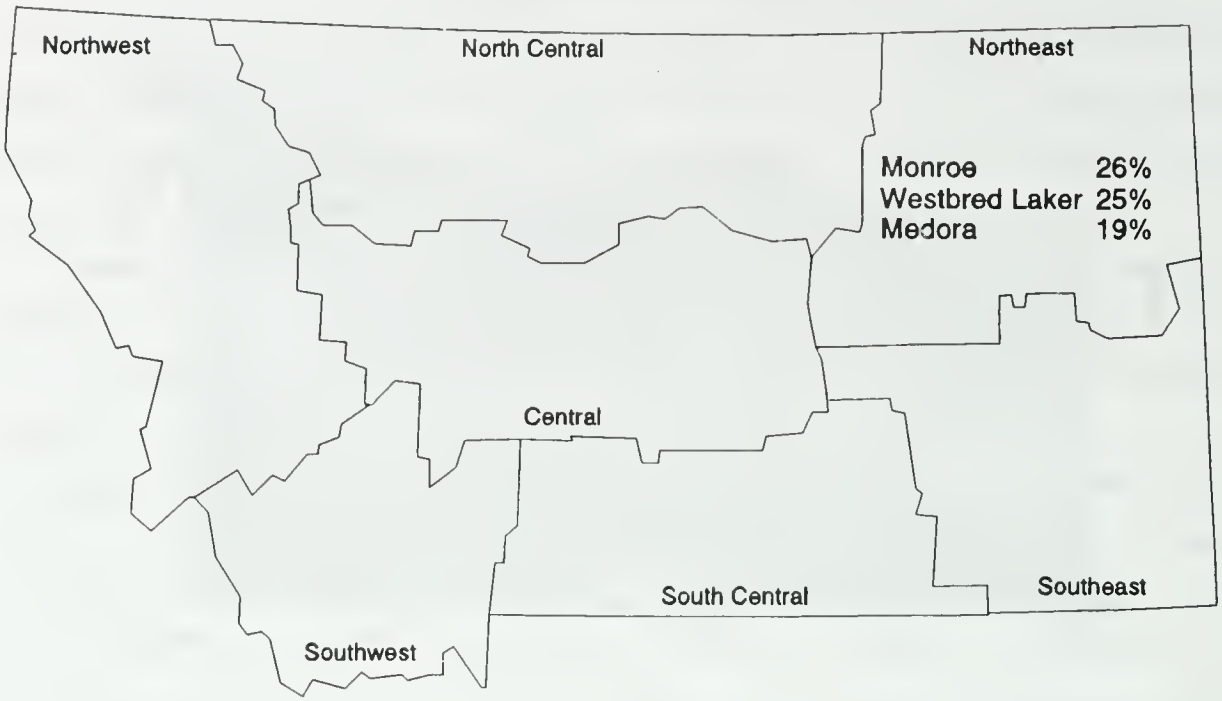


DURUM WHEAT VARIETIES

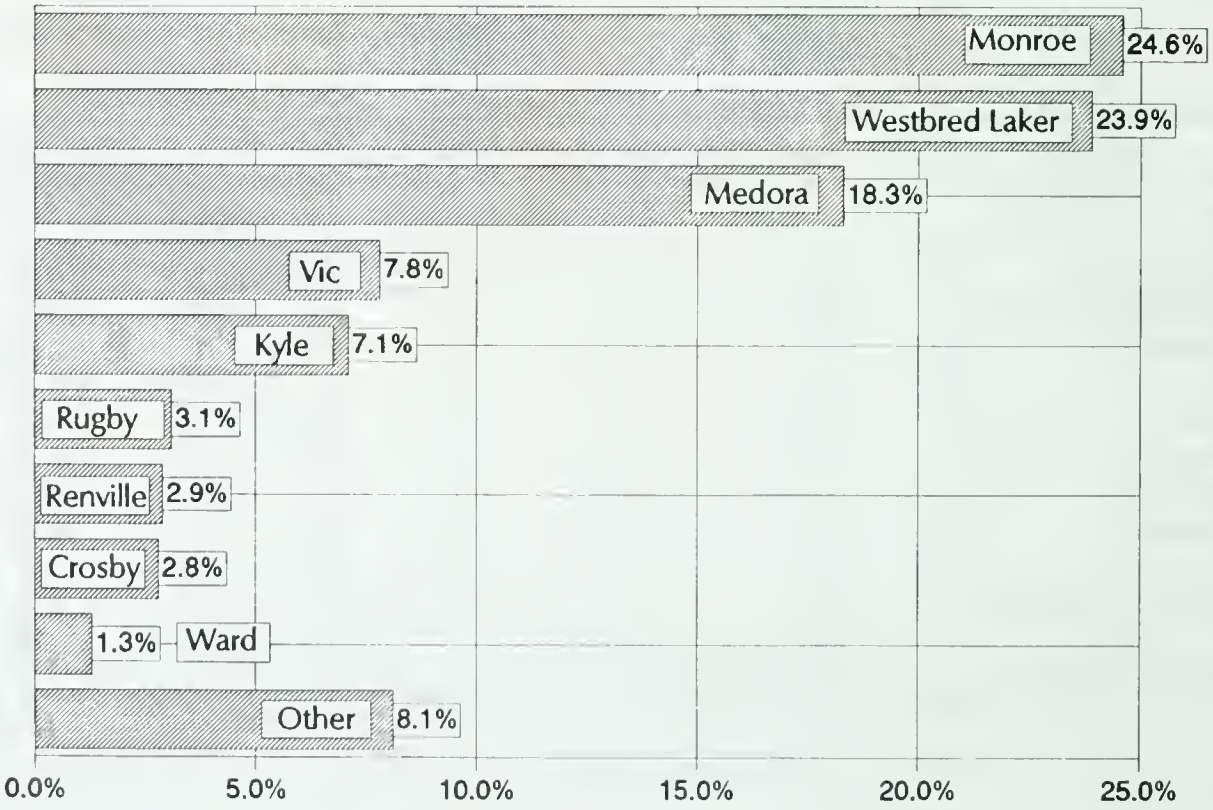
Seeded Acreage and Percent of Total by Districts - 1993 Preliminary

Variety	Northeast		Other Districts		State	
	(000)	%	(000)	%	(000)	%
Monroe	28.3	26.0	0	0	28.3	24.6
Westbred Laker	27.5	25.3	0	0	27.5	23.9
Medora	21.1	19.4	0	0	21.1	18.3
Vic	9.0	8.3	0	0	9.0	7.8
Kyle	8.2	7.5	0	0	8.2	7.1
Rugby	3.6	3.3	0	0	3.6	3.1
Renville	3.3	3.0	0	0	3.3	2.9
Crosby	3.3	3.0	0	0	3.2	2.8
Ward	1.5	1.4	0	0	1.5	1.3
Other & Unknown	3.2	2.8	6.2	100.0	9.3	8.1
STATE TOTAL	108.8	100.0	6.2	100.0	115.0	100.0

Top Three Durum Wheat Varieties and Percent by District



1993 Durum Wheat Varieties



Barley

Montana farmers planted 1.30 million acres of barley in 1993, 4 percent below 1992, and 34 percent less than the 10-year average.

Hector remains the leading barley variety. A feed-type variety, it has been number one for the past 12 years and was planted on 22 percent of barley acres in 1993. **Harrington,** a malting-type barley, came in at a close second place. It was seeded on nearly 22 percent of the barley acres. Together, these two varieties account for 44 percent of the total barley acres seeded in Montana.

MALTING-TYPE BARLEY VARIETIES

Malting-type varieties, grown in Montana and recommended by the American Malting Barley Association for malting and brewing use, accounted for 421,700 acres, 32 percent of total barley acres. This is an 8 percent decrease from last year for these varieties.

Harrington, planted on 22 percent of the total barley acreage, remains the leading malting-type variety. More than 81 percent of the Harrington planted is grown in the north central district. Harrington was released by the University of Saskatchewan and was developed from the cross Klages/SK.

The **B1202** variety is seeded on the second largest acreage devoted to malting-type barley. This variety increased 33 percent over last year.

Morex declined 23 percent from last year and is the third most popular malting variety. More than 70 percent of Morex is grown in the north central area of the state. Morex is a midwestern six-rowed variety.

Moravian III, the fourth most prevalent malting barley, is down 10 percent from 1992. It accounts for 5 percent of the total malting-type varieties planted. Moravian III is a two-rowed variety.

FEED-TYPE VARIETIES

Hector maintains its first place position among feed-type varieties with 22 percent of the state total. Five out of the seven districts in Montana have Hector in the top two varieties planted. It is the most important variety in eastern Montana. Hector is a high-yielding, two-rowed variety from Lethbridge, Canada, with good test weight and good lodging resistance.

Gallatin moved into second place among feed varieties and totaled 112,800 acres. It increased 4 percent over last year's acreage. Gallatin showed strong increases in the central and south central regions. Since 1987, Gallatin has experienced a gradual increase in its percent of the total barley acres seeded each year.

Piroline acreage decreased 25 percent from 1992 to 1993 and gave up its number two place among feed varieties. Piroline ranks fourth among all barley varieties and third among feed varieties. Piroline is a two-rowed variety, relatively strong strawed with medium yield ability and good test weight.

Barley

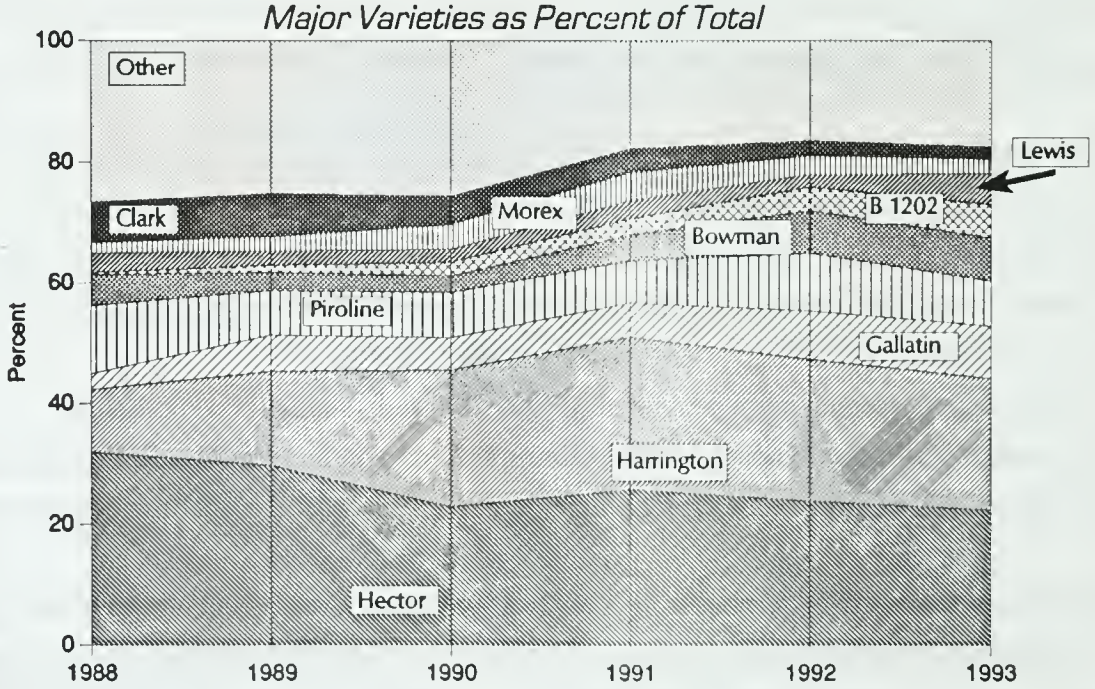
Percent of Total Seeded Acreage 1988-1993 and Seeded Acreage 1992-1993

Variety	Percent of Total Seeded Acreage						Seeded Acres (000)	
	1988	1989	1990	1991	1992	1993	1992[1]	1993[2]
Hector	31.8	29.8	22.9	25.8	23.9	22.4	323.2	291.0
Harrington	10.5	15.6	22.7	25.3	23.5	21.8	317.3	283.5
Gallatin	2.6	6.0	5.4	5.6	8.0	8.7	108.6	112.8
Piroline	11.3	7.3	7.4	7.0	9.5	7.4	128.5	96.2
Bowman	5.1	3.0	2.7	4.3	7.1	7.2	96.4	93.7
B 1202	0.3	1.2	2.4	2.7	3.9	5.4	53.0	70.6
Lewis	3.2	2.4	2.1	3.0	2.2	5.2	29.6	67.0
Morex	1.9	2.3	4.1	4.6	3.0	2.4	40.2	30.9
Clark	6.7	7.2	4.7	4.1	2.5	2.1	33.3	27.2
Horsford	0.7	1.6	1.8	2.2	1.4	2.0	18.6	26.2
Moravian III	1.0	1.2	2.5	1 7	1.8	1.7	24.0	21.7
Baroneese	--	--	--	--	0.1	1.6	1.8	20.5
Westbred 501	0.3	0.2	0.4	0.1	0.1	1.0	1.3	13.6
Menuet	1.7	1.1	1.2	1.7	1.4	0.9	19.0	12.1
Klages	11.0	9.8	7.2	3.3	0.3	0.6	3.8	7.6
B 2601	--	1.4	2.1	1.3	1.4	0.6	19.0	7.4
Unitan	0.6	0.6	0.8	0.7	0.2	0.5	2.7	7.1
WestBred Medallion	--	--	0.1	0.1	0.6	0.5	7.5	6.5
B 1215	--	--	--	--	0.3	0.4	4.5	5.7
Summit	1.1	0.4	0.5	--	0.3	0.4	4.7	5.1
Other and Unknown	10.2	8.9	9.0	6.5	8.5	7.2	113.0	93.6
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	1350.0	1300.0

[1]Revised [2]Preliminary

Barley Varieties 1988-93

Major Varieties as Percent of Total



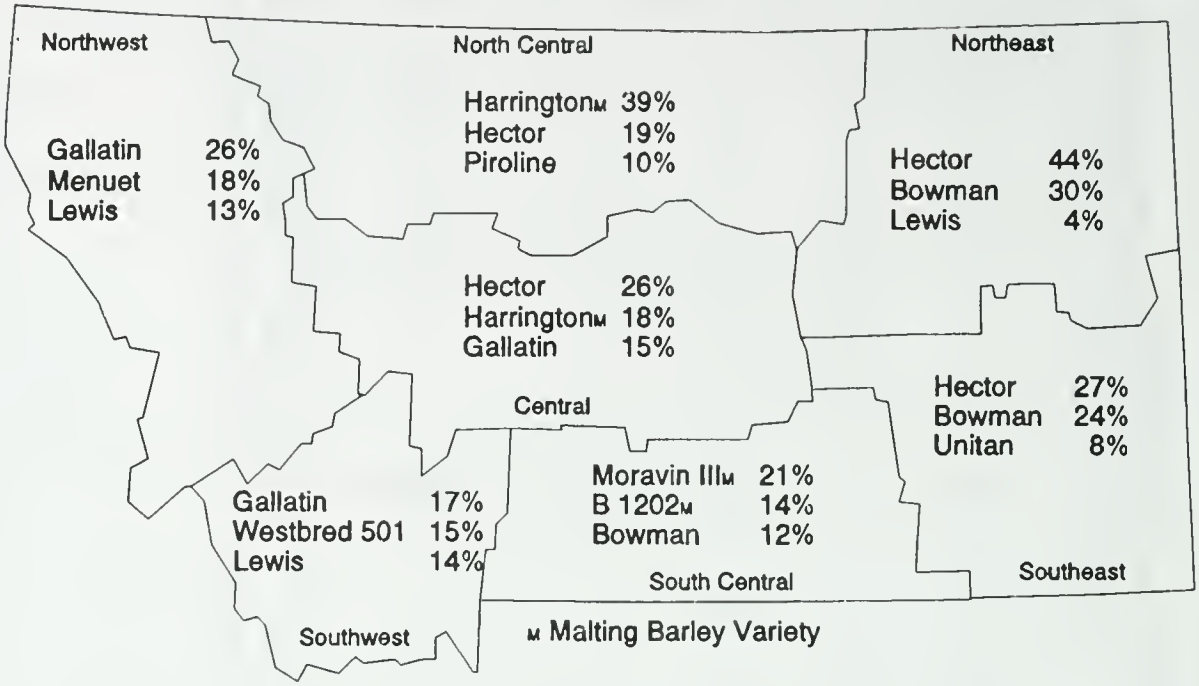
BARLEY VARIETIES

Seeded Acreage and Percent of Total by Districts - 1993 Preliminary

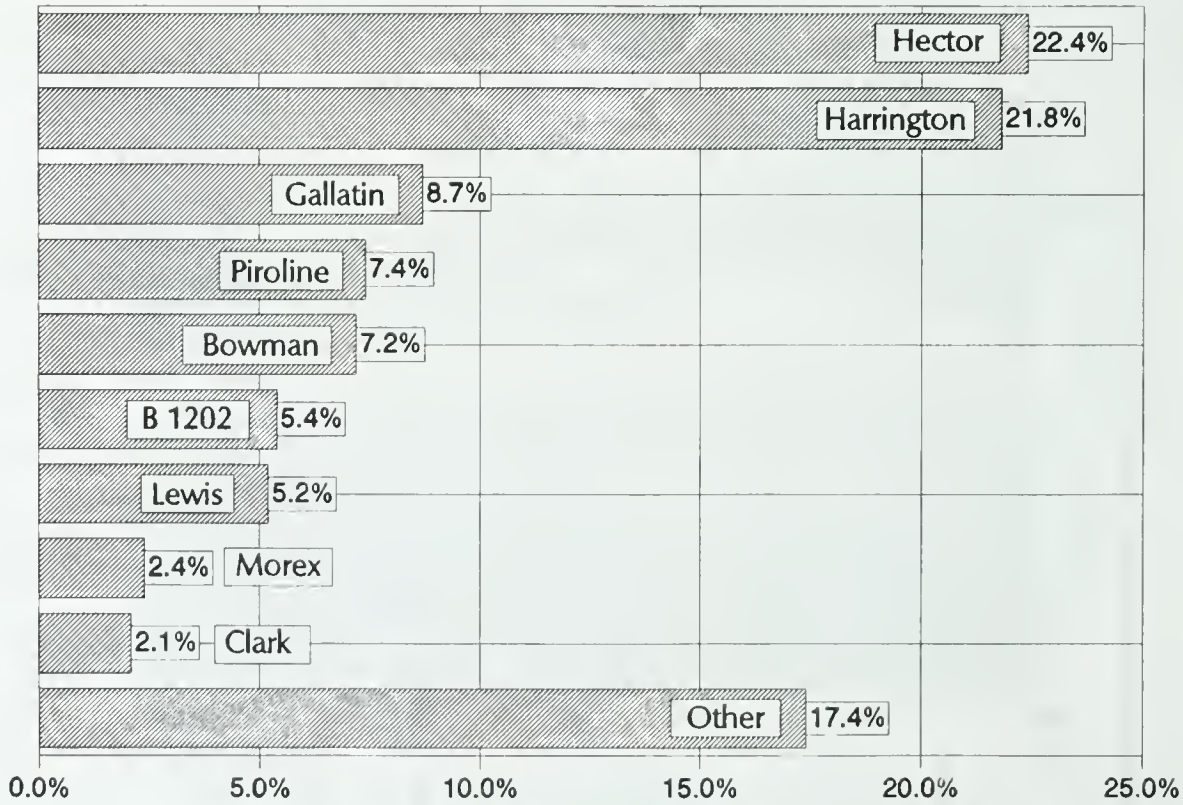
Varieties	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Hector	0.2	0.4	110.7	18.8	76.8	44.4	73.4	26.4	2.7	4.1	7.7	11.0	19.5	27.9	291.0	22.4
Harrington[M]	1.0	1.8	230.9	39.2	0.2	0.1	48.9	17.6	--	--	--	--	2.5	3.6	283.5	21.8
Gallatin	14.2	25.8	34.2	5.8	0.2	0.1	42.3	15.2	11 0	16.9	6.4	9.1	4.5	6.4	112.8	8.7
Piroline	--	--	56.0	9.5	2.4	1.4	32.5	11.7	--	--	1.7	2.4	3.6	5.2	96.2	7.4
Bowman	--	--	8.2	1.4	51.4	29.7	8.9	3.2	--	--	8.5	12.2	16.7	23.8	93.7	7.2
B 1202[M]	--	--	46.5	7.9	--	--	9.2	3.3	5.2	8.0	9.7	13.8	--	--	70.6	5.4
Lewis	7.1	12.9	30.0	5.1	6.7	3.9	12.8	4.6	9.0	13.9	0.6	0.8	0.8	1.1	67.0	5.2
Morex[M]	--	--	22.4	3.8	2.4	1.4	3.3	1.2	2.2	3.4	0.6	0.8	--	--	30.9	2.4
Clark	2.5	4.5	5.9	1.0	5.7	3.3	4.2	1.5	5.8	8.9	3.1	4.4	--	--	27.2	2.1
Horsford	4.2	7.7	1.8	0.3	6.1	3.5	3.1	1.1	2.9	4.5	3.1	4.4	5.0	7.1	26.2	2.0
Moravian III[M]	--	--	7.1	1.2	--	--	--	--	--	--	14.6	20.9	--	--	21.7	1.7
Baroneese	5.1	9.3	8.2	1.4	0.2	0.1	3.9	1.4	2.0	3.0	1.1	1.6	--	--	20.5	1.6
Westbred 501	--	--	0.6	0.1	--	--	--	--	9.5	14.6	--	--	3.5	5.0	13.6	1.0
Menuet	10.1	18.4	--	--	0.3	0.2	0.3	0.1	1.1	1.7	0.3	0.4	--	--	12.1	0.9
Klages[M]	--	--	2.9	0.5	0.5	0.3	4.2	1.5	--	--	--	--	--	--	7.6	0.6
B 2601[M]	--	--	3.5	0.6	--	--	3.9	1.4	--	--	--	--	--	--	7.4	0.6
Unitan	--	--	--	--	--	--	--	--	1.7	2.6	--	--	5.4	7.7	7.1	0.5
WestBred Medallion	--	--	0.6	0.1	--	--	0.8	0.3	3.6	5.6	--	--	1.5	2.2	6.5	0.5
B 1215	--	--	2.9	0.5	--	--	2.8	1.0	--	--	--	--	--	--	5.7	0.4
Summit	--	--	1.8	0.3	--	--	3.3	1.2	--	--	--	--	--	--	5.1	0.4
Other and Unknown	10.6	19.2	14.8	2.5	20.1	11.6	20.2	7.3	8.3	12.8	12.6	18.2	7.0	10.0	93.6	7.2
All Varieties	55.0	100.0	589.0	100.0	173.0	100.0	278.0	100.0	65.0	100.0	70.0	100.0	70.0	100.0	1300.0	100.0

[M] American Malting Barley Association, Inc. recommended for malting and brewing for Montana

Top Three Barley Varieties and Percent by District

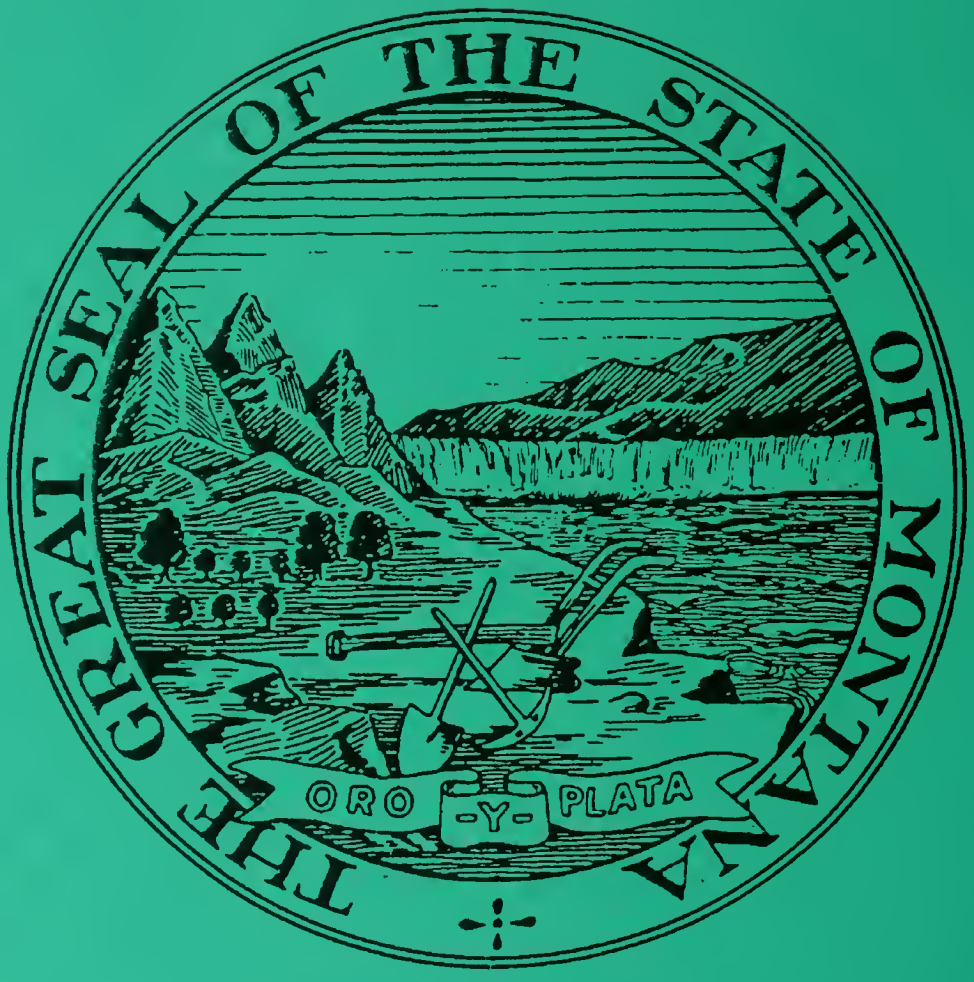


1993 Barley Varieties



Montana's Rank Among the Larger Winter Wheat Spring Wheat, Durum Wheat and Barley Producing States

State	1993 Seeded Acreage (000)	Rank
WINTER WHEAT		
Kansas	12,100	1
Oklahoma	7,300	2
Texas	6,100	3
Colorado	2,800	4
Washington	2,700	5
MONTANA	2,650	6
Nebraska	2,350	7
Missouri	1,650	8
Illinois	1,650	9
South Dakota	1,600	10
Arizona	1,100	11
Ohio	1,050	12
All Other	8,846	
US Total	51,896	
SPRING WHEAT		
North Dakota	9,700	1
MONTANA	2,650	2
Minnesota	2,500	3
South Dakota	2,100	4
Idaho	570	5
Washington	350	6
All Other	170	
US Total	18,040	
DURUM WHEAT		
North Dakota	1,950	1
MONTANA	115	2
Arizona	55	3
South Dakota	40	4
California	31	5
Minnesota	10	6
US Total	2,201	
BARLEY		
North Dakota	3,000	1
MONTANA	1,300	2
Idaho	770	3
Minnesota	725	4
South Dakota	400	5
Washington	350	6
California	250	7
Oregon	165	8
All Other	981	
US Total	7,941	


THE GREAT SEAL OF THE STATE OF MONTANA
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